

# SEQUENCE

1: NP\_003210 telomerase BLink, PubMed, Related Sequences,  
Nucleotide,

5 Taxonomy, OMIM, LinkOut  
reverse  
transcriptase;  
hEST2 [Homo  
sapiens]

10

LOCUS NP\_003210 1132 aa PRI 31-OCT-  
2000

DEFINITION telomerase reverse transcriptase; hEST2 [Homo sapiens].

ACCESSION NP\_003210

15 PID g4507439

VERSION NP\_003210.1 GI:4507439

DBSOURCE REFSEQ: accession NM\_003219.1

KEYWORDS .

SOURCE human.

20 ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;

Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae;

Homo.

25 REFERENCE 1 (residues 1 to 1132)

AUTHORS Nakamura,T.M., Morin,G.B., Chapman,K.B., Weinrich,S.L.,  
Andrews,W.H., Lingner,J., Harley,C.B. and Cech,T.R.

TITLE Telomerase catalytic subunit homologs from fission yeast  
and human

30 JOURNAL Science 277 (5328), 955-959 (1997)

MEDLINE 97400623

REFERENCE 2 (residues 1 to 1132)

AUTHORS Meyerson M, Counter CM, Eaton EN, Ellisen LW, Steiner P,  
Caddle SD,

Ziaugra L, Beijersbergen RL, Davidoff MJ, Liu Q,  
Bacchetti S, Haber  
DA and Weinberg RA.  
TITLE hEST2, the putative human telomerase catalytic subunit  
5 gene, is  
up-regulated in tumor cells and during immortalization  
JOURNAL Cell 90 (4), 785-795 (1997)  
MEDLINE 97433088  
PUBMED 9288757  
10 REFERENCE 3 (residues 1 to 1132)  
AUTHORS Kilian A, Bowtell DD, Abud HE, Hime GR, Venter DJ, Keese  
PK, Duncan  
EL, Reddel RR and Jefferson RA.  
TITLE Isolation of a candidate human telomerase catalytic  
15 subunit gene,  
which reveals complex splicing patterns in different cell  
types  
JOURNAL Hum. Mol. Genet. 6 (12), 2011-2019 (1997)  
MEDLINE 97472452  
20 PUBMED 9328464  
REFERENCE 4 (residues 1 to 1132)  
AUTHORS Wick M, Zubov D and Hagen G.  
TITLE Genomic organization and promoter characterization of the  
gene  
25 encoding the human telomerase reverse transcriptase  
(hTERT)  
JOURNAL Gene 232 (1), 97-106 (1999)  
MEDLINE 99267414  
PUBMED 10333526  
30 COMMENT PROVISIONAL REFSEQ: This record has not yet been subject  
to final  
NCBI review. The reference sequence was derived from  
AF015950.1.  
FEATURES Location/Qualifiers

```

source          1..1132
                 /organism="Homo sapiens"
                 /db_xref="taxon:9606"
                 /chromosome="5"
5                /map="5p15.33"
                 /tissue_type="kidney"
                 /dev_stage="embryo"

Protein         1..1132
                 /product="telomerase reverse transcriptase"
10              /note="hEST2"

CDS             1..1132
                 /gene="TERT"
                 /db_xref="LocusID:7015"
                 /db_xref="MIM:187270"
15              /coded_by="NM_003219.1:56..3454"

```

# ORIGIN

```

1 mpraprcrav rsllrshyre vlplatfvrr lgpqgwrlvq rgdpaaafra1 vaqclvcvpw
61 darpppaaps frqvscikel varvlqrice rgaknvla1fg falldgargg ppeafttsvr
121 sylpntvt1da lrgsgawgll lrrvgddvlv hllarcalfv lvapscayqv cgpplyqlga
20 181 atqarpppha sgprrrlgce rawnhsvrea gvplglpapg arrrggsasr slplkrprrr
241 gaapepertp vggqswahpg rtrgpsdr1gf cvvsparpae eatslegals gtrhshpsvg
301 rqhhagppst srpprpwdtp cppvyaethk flyssgdkeq lrpsfllssl rpsltgarrrl
361 vetiflgsrp wmpgtprrrlp rlpqrywqmr plfllellgnh aqcpygvllk thcplraavt
421 paagvcarek pqgsvaapee edtdprrrlvq llrqhssp1wq vygfvrac1r rlvppglwgs
25 481 rhnerrflrn tkkfislgkh akls1lqeltw kmsvr1dcawl rrs1pgvgcvp aaehrlreei
541 lakflhlw1ms vyvvellrsf fyvtettf1gk nrlffyrk1sv wsklq1sigir qhlkrvqlre
601 l1seaevrqhr earpalltsr lrfipkpd1gl rpivnm1dyvv gartfrrekr aerltsrvka
661 lfsvlnyera rrp1gllgasv lgldd1hraw rtfvlrvra1q dpppelyfvk vdv1tgaydt1
721 pqdrltevia s1ikpqntyc vrryavvqka ahghvrkafk shvstltd1q pymrqfvahl
30 781 qetsplrdav vieqssslne assglfdv1fl rfmchhavri rgksyvqcqg ipqgsil1stl
841 lcs1cygdme nk1lfagirrd glllrlvdd1f llvtphltha ktflrtlvr1g vpeygc1vvn1l
901 rktvvnfpve dealggtafv qmpahglf1pw cgllldtr1tl evqsdys1sya rtsiras1ltf
961 nrgfkagrn1m rrk1lfgvlrl kchslf1dlq vns1lgtvctn iykill1lqay rfha1cvlqlp
1021 fhqgvwknpt fflrvisdta slcysilka1k nagms1lgakg aagplpseav qwlchqaf1ll
35 1081 kltrhrvtyv pllgs1lrtaq tq1srklpgt tltaleaaan palpsdfkt1 ld / /

```